# $\rho(1900)$

$I^G(J^{PC}) = 1^+(1^{--})$

OMITTED FROM SUMMARY TABLE

See the mini-review under the $\rho(1700)$.

## $\rho(1900)$ MASS

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| $1910 \pm 10$ | [1,2] FRABETTI | 04 | E687 | $\gamma p \to 3\pi^+ 3\pi^- p$ |
| $1870 \pm 10$ | ANTONELLI | 96 | SPEC | $e^+ e^- \to$ hadrons |

[1] From a fit with two resonances with the JACOB 72 continuum.
[2] Supersedes FRABETTI 01.

## $\rho(1900)$ WIDTH

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| $37 \pm 13$ | [3,4] FRABETTI | 04 | E687 | $\gamma p \to 3\pi^+ 3\pi^- p$ |
| $10 \pm 5$ | ANTONELLI | 96 | SPEC | $e^+ e^- \to$ hadrons |

[3] From a fit with two resonances with the JACOB 72 continuum.
[4] Supersedes FRABETTI 01.

## $\rho(1900)$ DECAY MODES

| | Mode | Fraction ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $6\pi$ | seen |
| $\Gamma_2$ | $3\pi^+ 3\pi^-$ | seen |
| $\Gamma_3$ | hadrons | seen |
| $\Gamma_4$ | $e^+ e^-$ | seen |
| $\Gamma_5$ | $\overline{N} N$ | not seen |

## $\rho(1900)$ BRANCHING RATIOS

### $\Gamma(6\pi)/\Gamma_{\text{total}}$ — $\Gamma_1/\Gamma$

| *VALUE* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| not seen | AGNELLO | 02 | OBLX | $\overline{n} p \to 3\pi^+ 2\pi^- \pi^0$ |
| seen | FRABETTI | 01 | E687 | $\gamma p \to 3\pi^+ 3\pi^- p$ |
| seen | ANTONELLI | 96 | SPEC | $e^+ e^- \to$ hadrons |

## $\rho(1900)$ REFERENCES


| | | | | |
|---|---|---|---|---|
| FRABETTI | 04 | PL B578 290 | P.L. Frabetti *et al.* | (FNAL E687 Collab.) |
| AGNELLO | 02 | PL B527 39 | M. Agnello *et al.* | (OBELIX Collab.) |
| FRABETTI | 01 | PL B514 240 | P.L. Frabetti *et al.* | (FNAL E687 Collab.) |
| ANTONELLI | 96 | PL B365 427 | A. Antonelli *et al.* | (FENICE Collab.) |
| JACOB | 72 | PR D5 1847 | M. Jacob, R. Slansky | |

## OTHER RELATED PAPERS

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| DATTA | 03B | PL B567 273 | A. Datta, P.J. O'Donnell | |
| PAGE | 99 | PR D59 034016 | P.R. Page, E.S. Swanson, A.P. Szczepaniak | |
| CLEGG | 90 | ZPHY C45 677 | A.B. Clegg, A. Donnachie | (LANC, MCHS) |
| CASTRO | 88 | Preprint LAL-88-58 | A. Castro *et al.* | (DM2 Collab.) |